APPENDIX D MINIMUM CURRICULUM REQUIREMENTS FOR DoD CERTIFICATION AND RECERTIFICATION TRAINING

MINIMUM CURRICULUM REQUIREMENTS FOR CORE CERTIFICATION TRAINING

TITLE HOURS REOUIRED
1. Introduction to DoD Integrated Pest Management
2. Laws, Regulations and Reporting Requirements ., 5.0
A. Federal Laws Regulating Pesticide Use
B. DoD Documents
C. The Label and Labeling
D. Records and Reports
3. Pesticide Calculations
4. Pesticide Safety
A. Harmful Effects
(1) To the Applicator
(2) To the Environment
(3) Areas of Special Concern
a. Groundwaterb. Rare and Endangered Species
B. Protecting the Applicator
(1) Programs for the Protection of Pesticide Applicators
(2) Personal Protective Equipment (PPE)
(3) Medical Response to Pesticide Poisoning

HOURS REQUIRED

TITLE

C. Protecting the Environment
(1) Preventing Spills
a. Mixing and Loadingb. Pesticide Transportationc. Pesticide Storage
(2) Spill Remediation
(3) Pesticide Disposal
(4) Equipment Calibration
D. The Pest Management Shop
5. Introduction to Pests
6. Integrated Pest Management
A. Introduction
B. Non-Chemical Methods
(1) Cultural Management and Biological Management
(2) Genetic Management
(3) Regulatory Management
(4) Mechanical and Physical Management
C. Chemical Methods
(1) Attractants
(2) Repellents
(3) Plant Growth Regulators

HOURS

TOTAL HOURS = 40.0

TITLE	REOUIRED
(4) Pesticides	
 a. Defining Pesticides b. Modes of Entry c. Families of Pesticides d. Formulations e. Selecting Pesticides and Formulations: Case Studies 	
D. Addressing Unsuccessful Pest Management Programs	
(1) Reviewing Non-Chemical Elements of the Program	
(2) Reviewing Selection and Application of Pesticides	
(3) Pesticide Resistance	
E. Integrated Pest Management Case Studies	
7. Equipment Overview	1.5
8. Administrative Procedures (Reviews, Competency Exams, etc.)	4.5

MINIMUM CURRICULUM REQUIREMENTS FOR COMBINED CERTIFICATION TRAINING IN:

CATEGORY 2. FOREST PEST MANAGEMENT: CATEGORY 3. ORNAMENTAL AND TURF: CATEGORY 5. AQUATIC: AND CATEGORY 6. RIGHT-OF-WAY PEST MANAGEMENT

	TITLE HOURS REQUIRED
1.	Introduction to Non-Chemical Integrated Vegetation Management
2.	Plant Biology and Physiology
3.	Plant Health Maintenance Programs: Ornamental and Turf
4.	Classification, Use and Mode of Action of Herbicides, Fungicides and Nematicides 3.0
5.	Health Hazards of Herbicides, Fungicides and Nematicides
6.	Diseases of Turf, Ornamental, Trees; and Nematode Management
7.	Pests of Turf, Trees and Omamentals
8.	Aquatic Weeds: Identification and Management
9.	Natural Resources Conservation Program
10.	Pesticide Use Problems
11.	Forest Pest Management
12.	Vegetation Management Equipment
13.	Administrative Procedures (Reviews, Competency Exams, etc.) 6.0
	TOTAL HOURS = 32.0
	MINIMUM CURRICULUM REQUIREMENTS FOR CERTIFICATION TRAINING IN: CATEGORY 3a. SOIL FUMIGATION
So	il Fumigation (In addition to the 32-hour combined category 2,3,5,6 training)

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MINIMUM CURRICULUM REQUIREMENTS FOR CERTIFICATION TRAINING IN: CATEGORY 6a. GRASSLAND AND NON-CROP AGRICULTURAL LAND PEST CONTROL

Topics included in Category 6 Training

MINIMUM CURRICULUM REQUIREMENTS FOR COMBINED CERTIFICATION TRAINING IN:

CATEGORY 7. INDUSTRIAL INSTITUTIONAL STRUCTURAL AND HEALTH-RELATED PEST MANAGEMENT: AND CATEGORY 8. PUBLIC HEALTH PEST MANAGEMENT

<u>TITLE</u>		<u>HOURS</u> <u>REQUIRED</u>
1. Fleas		2.0
2. Cockroaches		
3. Stored Products Pests.		2.5
4. TickS and Mites		2.0
5. Flies other than Mosqu	itoes	3.0
6. Mosquitoes		4.0
7. Venomous Animals		
8. Vertebrate Pests		
9. Rodents		2.0
10. Equipment		12-0
11. has		
12. Other Household Pes	ts	
13. Wood Preservation		
14. Other _Wood Destroy	ying Organisms	
15 Termites"		5-0

16. Administrative Procedures (Reviews, Competency Exams, etc) 6.0

TOTAL HOURS = 48.0

NOTE: Topics 1-16 are required for Category 7. Only topics 1-12 and 4.0 hours Administrative time are required for Category 8.

MINIMUM CURRICULUM REQUIREMENTS FOR CERTIFICATION TRAINING IN: CATEGORY 7a. STORED PRODUCTS FUMIGATION

Stored Products Fumigation (In addition to the 48-hour combined category 7 and 8 training) 4.0

MINIMUM CURRICULUM REQUIREMENTS FOR CERTIFICATION TRAINING IN: CATEGORY 10. RESEARCH AND DEMONSTRATION

TITLE HOURS REQUIRED

- 1. Pesticide Registration
- 2. Experimental Use Permits
- 3. Special Local Needs Registration per 40 CFR
- 4. Emergency Pesticide Registration
- 5. Cancellation, Suspension and Special Review
- 6. Demonstration and Research Procedures
- 7. Individual Responsibilities and Liabilities
- 8. Pesticide Regulations

(BY CORRESPONDENCE)

MINIMUM CURRICULUM REQUIREMENTS FOR CATEGORY 11. AERIAL APPLICATION PEST CONTROL

<u>TITLE</u>	<u>HOURS</u> <u>REQUIRED</u>
I. Introduction	
2. General Principles of Aerial Spray	3-0
A. Uses of Aerial Spray	
B. Application Rates	
C. Types	
D. Mechanics	
E. Factors Affecting Droplet Dispersal& Distribution	
(1) Drop Size	
(2) Gravity	
(3) Air Movement	
(4) Evaporation	
3. Meteorology	
A. Weather Affects on Aircraft	
B. Weather Affects on Pest Behavior	
c. Weather Affects on Spray Droplets	
(1) Air Movements	
(2) Inversions	
(3) Temperature and Humidity	
D. Field Techniques	

<u>TITLE</u>	HOURS REQUIRED
4. Aerial Spray Math	4.0
5. Maps	4.0
A. Types	
B. Preparation	
6. Flying Aerial Spray: A Pilot's View	1.0
7. Public Relations	
8. Swath and Droplet Characterization	
A. Deposition Sprays	
B. Space Sprays	
C. Field Exercise	
9. DoD Spray Systems	2.0
A. C-130 Modular Aerial Spray System (MASS)	
B. Navy Pesticide Aerial Unit (PAU-9)	
C. Army Pesticide Delivery Unit (PDU)	
10. Calibration Lab	2.0
11. Contracts	1.0
12. Pesticides and Pesticide Safety	
A. Choosing a Pesticide for Aerial Use	
B. Types	
c. Adjuvants	
D. Safety Equipment	

	HOURS PEOURED
<u>TITLE</u>	REQUIRED
E. Spill Containment and Cleanup	
13. Logistics & Contingency Operations	1.5
14. Environmental Aspects of Aerial Spray	1.0
A. Benefits Versus Risks	
B. Minimizing Adverse Impacts	
C. Surveillance	
15. Legal Aspects of Aerial Spray	1.0
A. Aerial Spray Laws and Regulations	
B. Validation Procedures	
C. Obtaining Spray Services	
16. Administrative Duties	3.0
	TOTAL HOURS = 34.0

MINIMUM CURRICULUM REQUIREMENTS FOR RECERTIFICATION TRAINING IN: <u>CORE</u>

TITLE

HOURS REQUIRED

- 1. Environmental Protection, Integrated Pest Management
- 2. Pesticide Safety
- 3. Pesticides
- 4. Laws, Labels and Labeling
- 5. Formulations, Calculations and Applications
- 6. Records
- 7. Equipment
- 8. Administrative Procedures (Reviews, Competency Exams, etc.)

TOTAL HOURS = 9.0

MINIMUM CURRICULUM REQUIREMENTS FOR RECERTIFICATION TRAINING IN: CATEGORIES 2.3.5.6 (COMBINED)

HOURS REOUIRED

TITLE

- 1. Plant and Turf Diseases
- 2. Insect Pests of Plants
- 3. Vegetation Management (Weeds and Aquatics)
- 4. Seminar/Problems, Discussion
- 5. Soil Fumigation
- 6. Administrative Procedures (Reviews, Competency Exams, etc.)

TOTAL HOURS = 9.0

MINIMUM CURRICULUM REQUIREMENTS FOR RECERTIFICATION IN: CATEGORY 3a. SOIL FUMIGATION

Topics 1-5 are required for Category 3a Recertification

MINIMUM CURRICULUM REQUIREMENTS FOR RECERTIFICATION IN: CATEGORY a. GRASSLAND AND NON-CROP AGRICULTURAL PEST CONTROL

Topics 1-4 are required for Category a Recertification

MINIMUM CURRICULUM REQUIREMENTS FOR RECERTIFICATION TRAINING IN: CATEGORIES 7 AND 8 (COMBINED)

HOURS REOUIRED

TITLE

- 1. Household Pests
- 2. Stored Products Pests
- 3. Ticks and Mites
- 4. Mosquitoes
- 5. Flies other than Mosquitoes
- 6. Venomous Organisms
- 7. Rodents
- 8. Other Vertebrates
- 9. Termites
- 10. Other Wood Destroying Organisms
- 11. Wood Preservation
- 12. Stored Products Fumigation
- 13. Administrative Procedures (Reviews, Competency Exams, etc.)

 $TOTAL\ HOURS = 9.0$

NOTE: Topics 1-11 and 13 are required for Category 7 Recertification. Topics 1-13 are required for Category 7a **Recertification**. Topics 1-8 and 13 are required for Category 8 Recertification.

MINIMUM CURRICULUM REOUIREMENTS FOR RECERTIFICATION IN CATEGORY 10. DEMONSTRATION AND RESEARCH PEST CONTROL

Recertification may be accomplished by:

- A. Employment in a position involving research and/or demonstration, or
- B. Participation (to include instruction) at a regular DoD recertification training course meeting all of the requirements for category recertification; or
- C. By passing a written examination for the core, Research and Demorstration, and appropriate categories. Individuals whose employment precludes their being recertified under A and B above shall forward a letter of request to the Executive Director, AFPMB and state the reasons for request for recertification by examination. Upon determination of eligibility, the Executive Director will request the appropriate training center to forward examination materials to the individual.

MINIMUM CURRICULUM REQUIREMENTS FOR RECERTIFICATION IN: CATEGORY 11. AERIAL APPLICATION PEST CONTROL

<u>HOURS</u> REQUIRED

TITLE

- 1. General Principles Review
- 2 Meteorology
- 3. Aerial Spray Math
- 4. Maps
- 5. Swath & Droplet Characterization
- 6. DoD Spray Systems
- 7. Aerial Spray Pesticides
- 8. Logistics & Contingency Operations
- 9. Environmental Aspects of Aerial Spray
- 10. Legal Aspects of Aerial Spray
- 11. Contracts

 $TOTAL\ HOURS = 24.0$